

THE TECH

VOL. XXVIII. No. 48

BOSTON, MASS., WEDNESDAY, FEBRUARY 24, 1909

PRICE THREE CENTS

TECHNOLOGY LOSES TO HANOVER FIVE

Dartmouth Wipes out Former Defeat by Basketball Victory—28-19

1911 DEFEATS 1912

Sophomores Win Class Championship Series From Freshman —Numerals Awarded

Dartmouth wiped out its former defeat in basket ball when it beat the Tech team, 28 to 19, last Friday evening in the gymnasium. The game was marked by fouls by both sides. The score hardly shows the condition of play, for both halves were fast and close until near the end of the game.

Brady, Dartmouth's forward, played an exceptional game, scoring 18 of the 28 points credited to the men from Hanover. Parker and Wentworth for the Cardinal and Gray put up their usual good games and were important factors in the scoring.

Dartmouth started the scoring in the first half, but Tech was soon in the lead on a long shot by Wentworth and some clever baskets on free tries by Parker. The Green got the lead again and held it to the finish, though several times Technology came near tying the score.

DARTMOUTH
Hedge rf
Brady lf
Dingle c
Mullen rb
Ryan rb
Avery lb

TECHNOLOGY
lb Taite
rb Bennis
c Wentworth
lf Parker
rf Hargraves

Score, Dartmouth 28, Technology 19. Goals from floor, Mullen 2, Brady 5, Hedge, Dingle, Wentworth, Parker, 3. Goals from fouls, Brady 10, Parker 3, Wentworth, 4. Referee, Veite. Scorer, Hildebrand. Timer, Schofield. Time 20m halves. Attendance 200.

The sophomore team again defeated the freshman between the halves of the Dartmouth-Tech game, 28 to 4, winning the class championship. Class numerals were awarded the winning squad by the Advisory Council. Schatz played the star game for the upper classmen, while Cherry and Albee did the only creditable work for 1912. The summary:

1911	1912
MacPherson lf	rg Farwell, Chandler
Schatz rf	lg Stone
O'Neill, Harrington c	c Selfridge
Williams lg	rf Cherry
Metcalf rg	lf Albee

Score, Sophomores 28, Freshmen 4. Goals from floor Schatz 4, MacPherson 3, Williams 3, Harrington 2, Metcalf, O'Neill, Cherry Albee. No goals from fouls. Referee, C. W. Whitmore, 1908. Timer, D. R. Stevens 1911. Time, 20 minute periods.

ANOTHER RECORD

Tech Team Beats Wesleyan at Troy Set Intercollegiate Mark

On Monday night at Troy, N. Y., the Institute mile relay team in beating Wesleyan, broke the track and intercollegiate records and came within 2-5 seconds of the world's indoor mile relay record. The old track record was 3 minutes, 29 seconds, made by the famous Brown team of four year's ago. The team was made up of Thurlow, Honis, Mayhew, and Prout. The time made by the Technology team, composed of K. D. Fernstrom 1910, A. L. Moses 1910, W. C. Salisbury 1911, and Capt. C. W. Gram 1909, was 3 minutes, 28 2-5 seconds. Wesleyan beat Tech at Philadelphia last April and the Institute team, with Moses in Grimson's place were out to retrieve the defeat. This victory in a way compensates for the race in New York, where the time made by Harvard was some seconds slower. It should be remembered that the tracks might be different.

TECHNOLOGY MEN STUDY TOO MUCH

Students Miss Many Chances to Benefit by Course Societies

GUERTLER ON ALLOYS

Research Associate Will Talk to Chemical Society Tonight—Others Invited

As Professor Wm. A. Walker says, too many men at the Institute waste a lot of time studying. This waste is because a large number of men do not take advantage of their opportunities to broaden their views and see and hear things outside of their text books. One of the greatest advantages of a course at the Institute is the chance to get together at the meetings of the professional societies and discuss the topics which are taken up by the speakers. Tech men too often entirely neglect the development of the social side of their lives and are in consequence at a disadvantage when they are later on called upon to express themselves at more important gatherings.

At the Chemical Society meeting to be held in the Union tonight Dr. Wm. A. Guertler will speak on some recent work on "Metallic Alloys." Dr. Guertler took his Ph. D. at the University of Goettingen and was later Privat Dozent at the University of Berlin. He is at present research associate in the research laboratory of applied chemistry where he is working on the occurrence and cause of what is technically known as "gray zinc". An electric projecting microscope will be used to illustrate the talk tonight. This microscope has a range of magnification of from 4 to 1300 diameters. Dr. Guertler has in preparation a book that will be the most authoritative work published on metallurgy.

It is hoped that all the Tech men who take chemical subjects or who are interested in it will avail themselves not only of the opportunity of hearing Dr. Guertler but also of meeting the other fellows and some of the professors.

E. JACOBS IS CAPTAIN

To Lead 1909 Cross Country Team Stephenson 11th at Providence

Elmer Jacobs 1910, at a meeting of the cross country team held yesterday was elected captain of next year's team in place of L. O. Mills 1910, who has left the institute for the term. It is probable that Mills will be back next fall but someone had to be chosen to take charge of the work this spring. Jacobs finished sixth in the Freshman-Sophomore cross country race last spring. This was his first race and Coach Kanaly spotted him at once as a coming runner. Last fall he came out for the team and finished sixth in the race with Harvard. In the intercollegiate cross-country race at Princeton, Jacobs finished in 24th position, the fourth Tech man to cross the line. Jacobs is a consistent runner and trains faithfully. At the rate at which he is now developing he will be a crack man next fall and will doubtless be heard from in the two mile event this spring.

Jacobs will take immediate charge of the distance work and as many as possible who are intending to come out this spring either for the team or just for the fun of the thing are to meet Coach Kanaly at the Gym this afternoon at four o'clock. Regular Saturday runs will be held from the Gym until the ground is clear enough for hare and hounds runs. The work at the start will be very light, consisting of short runs at a slow pace for a short distance through the streets. These runs will be gradually lengthened so that the

(Continued on page 3.)

L. L. ELDEN TALKS TO ELECTRICALS

Second Dinner Big Success—High Power Systems Discussed

TURBINES EFFICIENT

Remedies Applied by Elden Proved Great Success—Continuous Service Possible

Seventy-five covers were laid at the second dinner of the Electrical Engineering Society held in the Union last evening. Invitations were sent to the faculty and instructing staff. The electrical engineering department was fully represented. After the dinner Mr. L. L. Elden, Superintendent of the Edison Electric Illuminating Company of Boston addressed the Society on the many interesting features of the Edison Company's generating and distribution system, the many problems involved and the remedies applied.

The talk was illustrated with a large number of clear lantern slides, including old and new types of generators, switch-boards, underground conduits and construction work. A great contrast was shown between the old station equipment with its many old style T. H. generators and the new up-to-date L Street station, where are found the modern turbine units, that contribute so much to the efficiency of the present day high-power distribution.

Mr. Elden discussed at length the methods used by the Edison people to avoid a complete shut down of their generating plant. The wiring diagrams of the distribution system, including substations and low-tension transmission lines, thrown upon the screen gave the audience a vast amount of valuable information on this point.

The Edison Company have found, through costly experiment, that greater efficiency has been acquired in their boiler room by introducing a larger amount of forced air under the firegrates. A more perfect combustion results; with a minimum coal supply.

Statistics quoted from the Edison Company's books show that the increase in the use of incandescent lamps has not kept pace with the terrific expansion that has been necessary in the power house. This has brought about the problem of increasing the efficiency and maximum output of the stations within a reasonable expense limit.

A number of views of the Company's reserve coal supply was shown. In order to avoid a fire loss, which is considerable in many large power plants, thermometers have been sunk throughout the coal field and their temperature constantly watched.

Mr. Elden has been in the employ of the Edison Illuminating Company for a long period and his scientific handling of difficult problems has won him considerable esteem.

CATHOLIC CLUB MEETS

Twenty-five members of the Catholic Club of Technology met last evening in II Pierce to hear an informal address on "Opportunity" given by Thomas A. Mullen, former member of the Boston School House Commission. Mr. Mullen is a very forcible speaker and held the attention of his audience until the last. He expressed very freely his views about President Roosevelt and had considerable to say about the common council and city government of Boston. The talk fully warranted a larger attendance.

WILL FENCE WITH COLUMBIA TONIGHT

Technology Team Has Made A Splendid Record This Year

SCHEDULE AS PLANNED

Will Fence Harvard and Yale in Tech Gym March 13. Then Finals the 27th

With the meet with Columbia at the Tech Gym tonight the Institute Fencing Team starts upon its spring season.

Never has the Institute been represented by a better team than the team which this year wears the red and gray. The members have been practising faithfully ever since the opening of the school year under the careful instruction of Coach Lucien Fournon and the results are very satisfactory both to the coach and the fencers.

An event of considerable importance for the Institute team is the dual meet which has been arranged with the Pennsylvania trio to be held at Philadelphia Saturday, February 27. Pennsylvania has the reputation of turning out a remarkably fast team and this meet should prove intensely interesting. Pennsylvania has defeated the fast Annapolis team recently by a score of 5 to 4.

As yet the Institute team has been unbeaten this season having met and defeated several strong teams. The team opened the season with an 8 to 1 win over the Boston Y. M. C. A. team, completely outclassing their opponents. Their next opponent was the Springfield Training School fencers, whom they defeated handily, in fact the Springfield boys did not win a single bout. The last team which the Technology team defeated was the Fenway Fencing Club whom they defeated by 7 bouts won to 2 lost. Tech is looked to by many to win the intercollegiate championship this year.

Columbia has a fast team and a close bout is looked for, altho chances are good for a victory for Tech. The New Yorkers have defeated the Yale trio, but have been worsted by the Army team and by Pennsylvania. In this way the results of this evening's match should give a good line on the dual meet at Philadelphia Saturday.

Manager M. R. Chapin, 1910, has arranged a most attractive schedule for the rest of the season, which follows:

Feb. 24—Columbia at the Gym.

March 6—Triangular meet with Springfield Training School and Amherst at Springfield.

March 13—Preliminaries of Intercollegiates with Harvard and Yale at the Gym.

March 27—Finals of Intercollegiates at New York.

The Institute team held a "fencing party" at the Fenway club rooms last Saturday. Following several practice bouts with the Fenway team, refreshments were served and the stick men passed the remainder of the evening enjoying a social gathering.

CALENDAR

WEDNESDAY, FEBRUARY 24.

8 P. M. Fencing at the Gym. Tech vs. Columbia.

THURSDAY, FEBRUARY 25.

8 P. M. M. E. Society meeting at Union.

THE TECH

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Wednesday, February 24, 1909.

The Tech takes pleasure in announcing the elections of Walter Herbert Hildebrand 1911 and Harold Martin Davis 1911 to the board of editors and the appointments of Alfred Victor Guillou 1912 and Orville Boardman Denison 1911 to the board of associate editors.

The outcome at Troy is surely balm for the smart of the New York race.

Too many men at the Institute waste a lot of time studying."

Tech fences Columbia tonight. An athletic aggregation which has been picked to win the intercollegiate contest should be given better support on its preparatory meets. Pennsylvania recently defeated the New York team 5 to 4. If you want to see how the Cardinal and Gray lines up with Pennsy be at the Gym tonight.

It seems unfortunate that with the limited number of men who feel able to attend evening meetings of one kind or another about the Institute, three activities should see fit to compete for them on one night, as occurred last Friday. The result was that not one of the three received the attention it deserved. Dr. Fleischer found so few men awaiting him that he postponed his talk, all the noise at the basketball game was made by a few dozen men and the military ball doubtless felt the strain. The conflict might just as well have been avoided. The Union entertainment committee feels that it has right of way over other organizations on Friday nights, but the date of the Dartmouth game was decided upon in November, and intercollegiate affairs should in general have some recognition. To prevent repetitions of this conflict, it would seem that one of two steps should be taken; either athletic and social schedules should be made subject to the approval of the Institute Committee, who would see that no dates interfered, or else the Union committee should consult the athletic schedules before inviting its speakers for evening entertainments. A little co-operation would save a great deal of trouble.

Although a fair number of men have entered the second term competition for positions on the news and business staffs of the Tech, there is plenty of room for more and no man need feel that it is yet too late to start in and make good. The Tech feels that it can work to its best efficiency with six associate editors, ten or more news staff men, and as many more on the business staff and the board of editors will work hereafter toward this end. This means that there are a number of positions on the Tech vacant; that there are more opportunities to be found here than in any other activity at present needing candidates. Not only are the opportunities excellent, but the work in connection with the Tech is most enjoyable and perhaps in no other branch of undergraduate activity can one gain so thorough a knowledge of other things than

books and breadth of view the lack of which Dr. Walker has so forcibly called attention to.

Mr. Ranger will be glad to talk over the work on the news staff with all who care to see him in 30 Engineering C on any day at 1.30 P. M., and those who want to try out on the business end may see either Mr. Forristall or Mr. DeForest at the same time.

SHOW MAKES PROGRESS

Principals and Chorus Working Hard—Cut in Chorus Soon

Tech Show rehearsals are now being held regularly and the chorus, although it has been rehearsing only a week, is fast rounding into shape. The men have already put considerable snap into the choruses.

The members of the chorus were put on the floor for the first time on Monday and experienced at first, quite some difficulty when they were forced to sing and dance at the same time. The choruses are coming along in first rate shape, and the men have put considerable snap into the music. Coach Francis will pick the final chorus from among the provisionals on Wednesday. There will be clever dancing in this year's show by a sextette of pretty chorus girls. The men who were chosen to compose this sextette are, J. C. Fuller 1911, S. G. Brown 1912, R. P. Williams 1912, T. C. Merriman 1909, E. K. Jenckes 1910, and W. C. West.

The principals went through the first act at their rehearsal on Monday afternoon. The men enacted their roles like old professionals. The outlook for a good cast and Show is growing brighter at every rehearsal.

MUSICAL CLUBS

Last Friday evening the Technology Musical Clubs gave a very successful concert at Peabody in the Town Hall. Over two hundred were present and they heartily applauded the numbers. Dancing until mid-night followed the concert.

At Haverhill last night the clubs gave a concert in the City Hall, which was packed. The concert was the most successful and best attended that the clubs have ever given.

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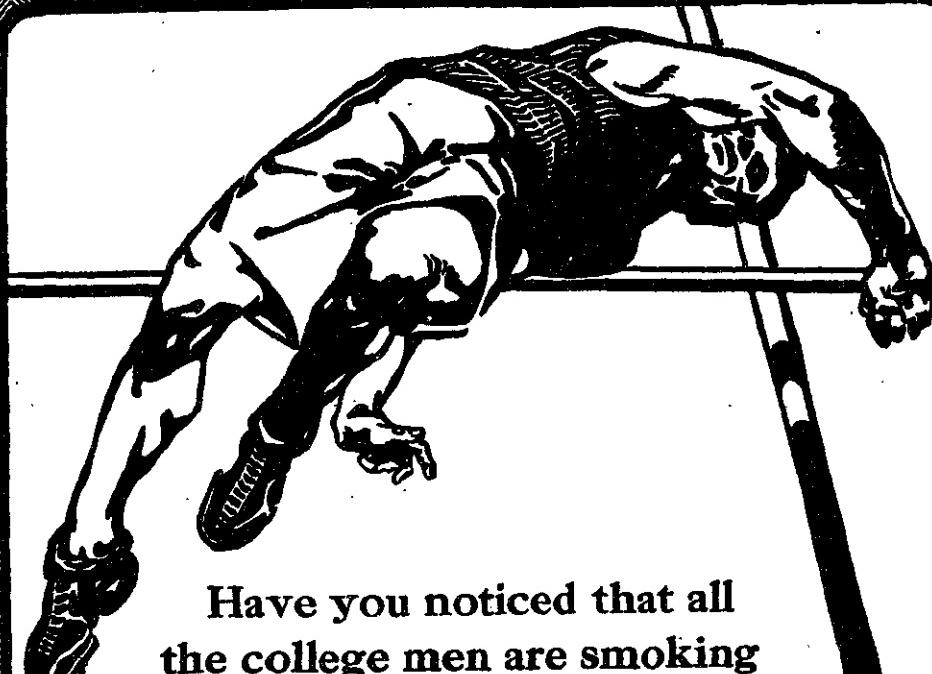
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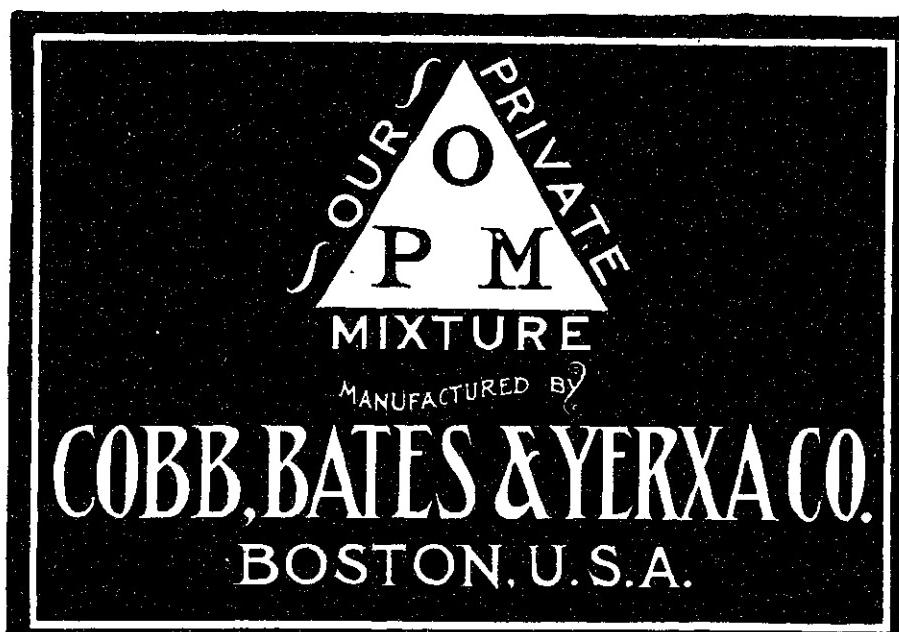
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E. JACOBS IS CAPTAIN

(Continued from page 1.)
men who are coming out at all should come out early while the work is easy and gradually prepare themselves for the harder work later on.

Three Tech men took part in a 7 1-2 mile "Marathon" race at Providence Monday. They were B. C. Huber 1910, V. V. Ballard 1912, and J. N. Stephenson 1909. There were 140 starters and 125 finished. The course was from Greystone to the store of the Outlet Co. on Weybosset St. The roads were lined with good natured spectators and the last quarter mile was so congested that the runners had to fight their way through the crowd. Stephenson finished eleventh but Ballard and Huber were unable to find out where they finished as the crowd became unmanageable and the judges could not take any record after the first fifteen got in.

FACULTY COMMITTEES

Standing Committees of Faculty Make Interesting Report

Among the most interesting of the reports of the Standing Committees of the Faculty, is that of the committee upon courses of study. This report includes an outline of the committee's general policy. The points considered in dealing with the course schemes are:—Distribution of time among general, scientific and professional subjects, with special emphasis against the overspecialization of subject matter; the general practicability from the standpoint of time required in exercise and preparation; subdivision of time. In the latter respect the committee maintains among other things that except in the case of laboratory, drawing room, or field work, time should always be allotted for preparation.

The principal changes with which the committee has dealt are:—an important revision of the course in electrical engineering, diminishing the work in modern languages, introducing applied mechanics in the second year, and increasing elective possibilities in the fourth year; the adding of a new option, steam turbine engineering in the fourth year of the mechanical engineering course, and the introduction of required physical training in the first year.

The committee on summer courses recorded a registration of 269 students as compared with 283 in 1907. The maximum number attending any one course was 48, the minimum, 4. Of the total number about 62 per cent of the students were anticipating work of the next year, and the remaining 38 per cent were repeating. About 60 per cent were taking courses consisting principally of laboratory, drawing room or field work.

Thirty-four applications for financial aid were made to the committee on advanced degrees and fellowships by students desiring to pursue graduate work during the year 1908-09. Of these 22 were institute students, and 12 were graduates of other colleges. The committee recommended 22, 14 of the former, and 8 of the latter class, 3 of these latter being subsequently declined. Eleven of the 22 applicants were candidates for the master of science degree, nine were prospective candidates for the degree of Ph.D. and two were taking advanced study without reference to a degree.

The report of the committee on undergraduate scholarships shows an increase of 20 over last year's figures in the number of students assisted. There are this year 176 students to whom the institute has made grants. In addition to this the state has assisted 68 students, 40 of whom were not aided by any institute grant.

The publications issued were:—11,500 catalogues, 6,500 president's reports, 2,500 bulletins on advanced study and research, 4,000 bulletins on summer courses, 4,000 registers of graduates, and 4,000 programs.

The most important work of the committee on the library during the past year has been the preparation of a subject catalogue, for the engineering library which contains all the books of civil, mechanical, and sanitary engineering departments. Provision was also made to publish articles of the character which the Technology quarterly contained before its discontinuance in 1908. The available appropriation for periodicals during the present year was \$2100 which was apportioned in the usual manner between the 13 institute libraries.

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DR. LUCKE WILL SPEAK

To Address Society of Arts on
"Gas Power"—all Invited

On Saturday evening at eight o'clock in Huntington Hall Dr. Lucke will lecture on "Gas Power." He is at the head of the mechanical engineering department of Columbia University and is conceded to be one of the highest authorities on the subject. He has directed several investigations along this line and has studied all the data of tests in France and Germany and a wide range of tests on American engines.

Dr. Lucke will cover all points of importance which would naturally arise in the discussion of the subject, but while covering the field in a comprehensive way will attempt to make his address as non-technical as possible.

This is one of the regular lectures of the Society of Arts course and as usual a number of seats will be reserved for members who write for tickets. The unoccupied seats will be thrown open to the public promptly at 7.55 o'clock.

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The Review aims to develop closer relations among Institute men and to stimulate their interest in the work of the College. It is in no sense an engineering magazine, but deals broadly with the problems of Technological Education and the responsibilities of the professional man.

THE REVIEW is published during January, April, July, and October. Communications should be addressed to The TECHNOLOGY REVIEW, 83 Newbury St., Boston.

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FINE MILITARY BALL

Very Successfull Affair Given by Tech Officers

The officers of the battalion gave last Friday night, in Howe Hall, the first military ball that the Institute Cadet Corps has had for three years. More than fifty couples enjoyed what proved one of the most successful social events of the year. The grand march was led by Major Rowe and his fiancee, Miss Iva Marshall of Gloucester.

The matrons were Mrs. A. E. Burton, Mrs. F. H. Rand and Mrs. H. P. Talbot. Major Rowe acted as floor director, with Captains C. S. Anderson, H. R. Wilbur, C. R. Perry and D. N. Frazier as assistants. The aides were Lieutenants H. C. Davis, R. H. Ranger, C. P. Kerr, J. Devlin, G. A. Hodge, L. R. Golden, E. I. Weisberg and C. L. Davis.

UNION ENTERTAINMENT

Address by Rabbi Fleischer Put Off for Lack of Hearers

As only twenty-five fellows showed up to listen to Rabbi Fleischer at the Union last Friday night the address was indefinitely postponed. The small audience was probably due to the basketball games which were going on at the gymnasium at the same time. This is the second time that Dr. Fleischer has been billed to speak at the Union, the first meeting having been postponed at his request. On that occasion the committee secured another speaker, but was compelled to give up the entertainment on account of the Indoor Meet at the same time.

M. E. SOCIETY TO MEET

Mr. Howland L. Coburn, 1898, will speak upon "Hydro Electric Plants" at the meeting of the Mechanical Engineering Society at the Union, Thursday evening, Feb. 25, at eight P. M. Mr. Coburn is a graduate in mechanical engineering and is now employed as a mechanical engineer and secretary with the Amburson Hydraulic Construction Company, 176 Federal Street, Boston. His practical and personal experience along these lines guarantees a very interesting and instructive lecture.

NOTICES

SLIDE RULE has been found. Inquire at Bursar's Office.

NOTICE.—A ring has been found and left at the bursar's office.

Subscriptions to the Tech for the remainder of the year for sale at the Tech office, 30 C. Price, \$1.00.

M. E. SOCIETY MEETING.—At the Union Thursday evening, 8 P. M. "Hydro Electric Plants."

CLASSIFIED ADS

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